

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P265666

Luminaire Tested: **ARCH-L-AF72-190-D-U-T3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-190-D-U-T3-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20236.2 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

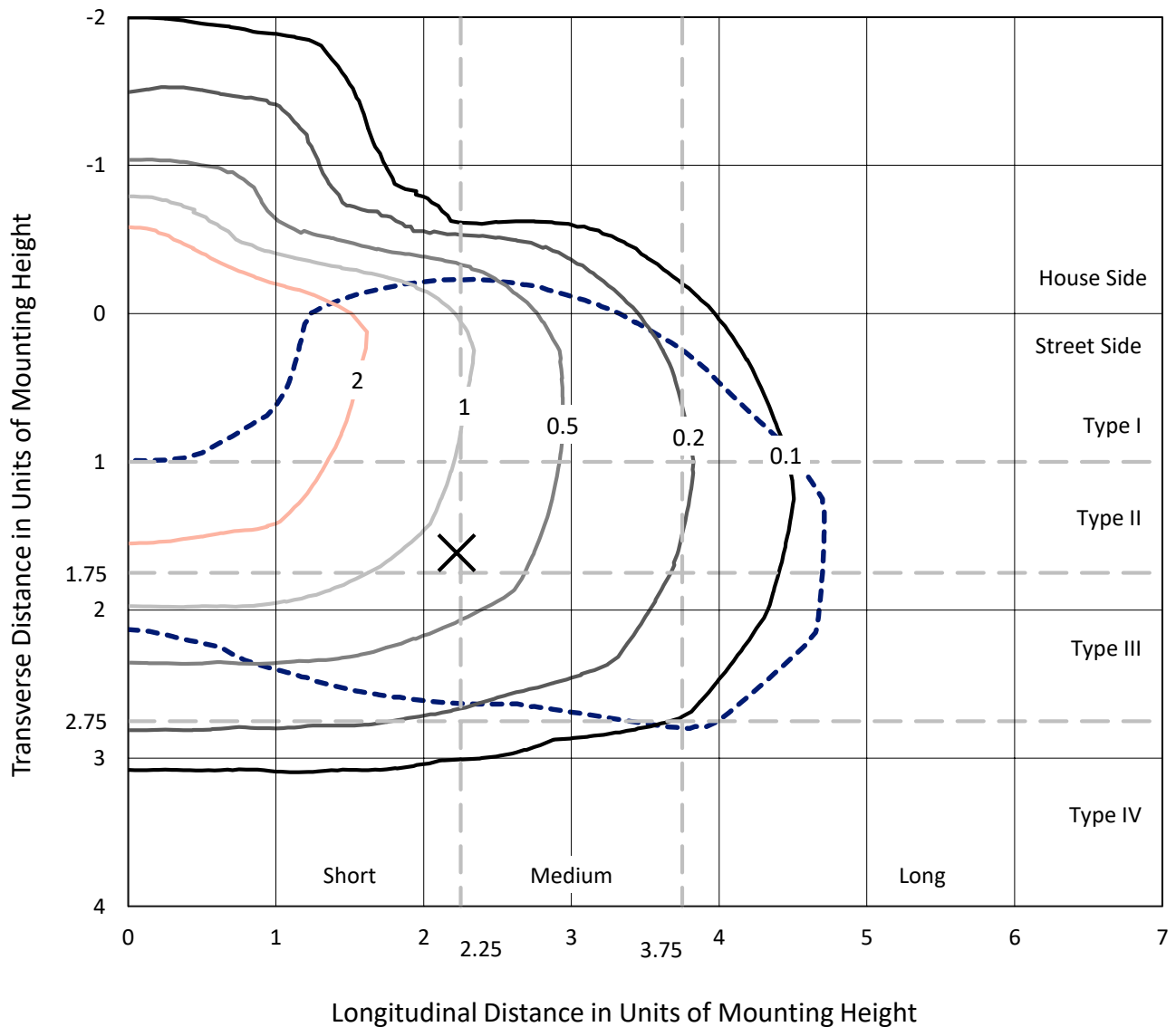
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

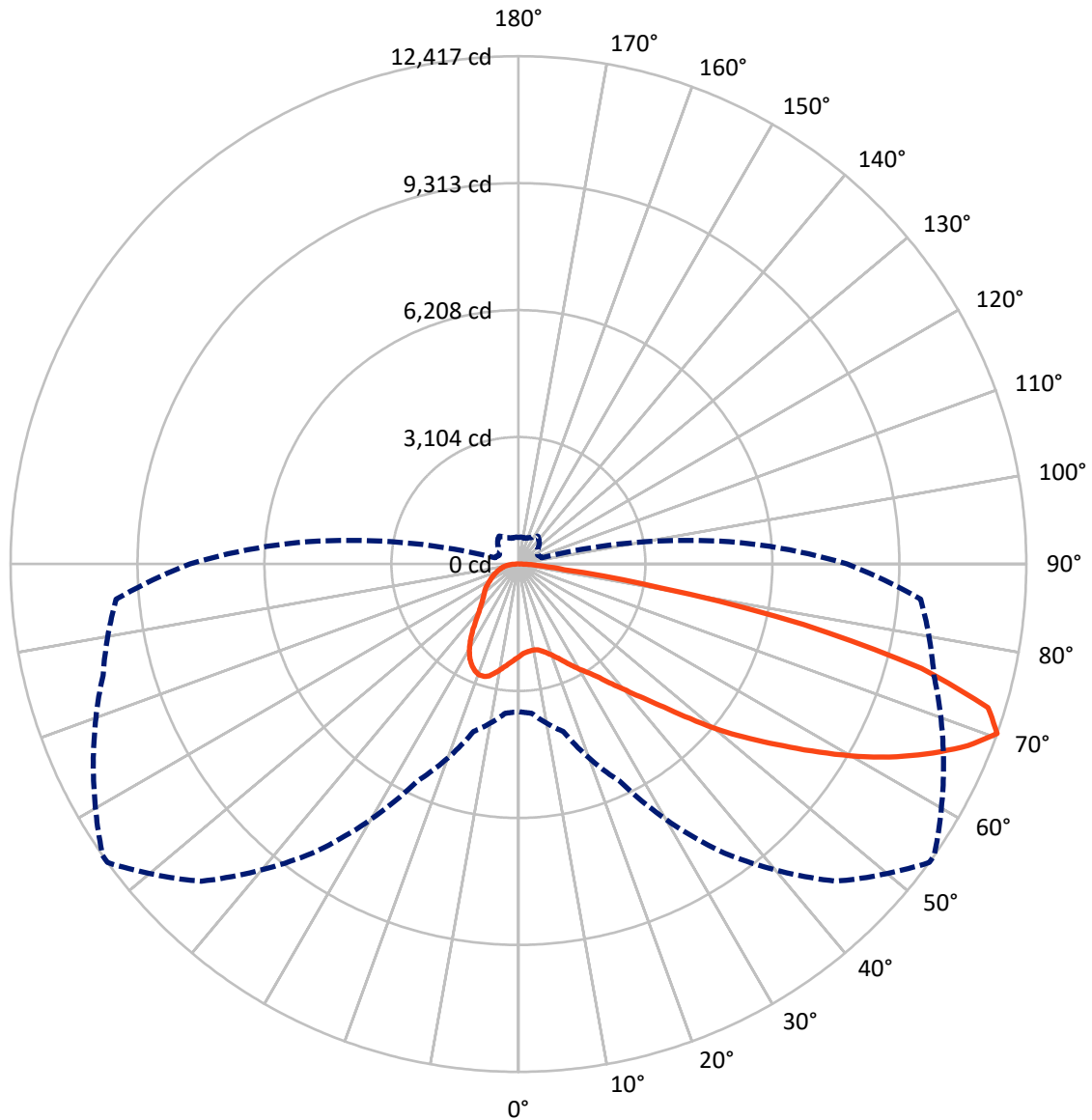
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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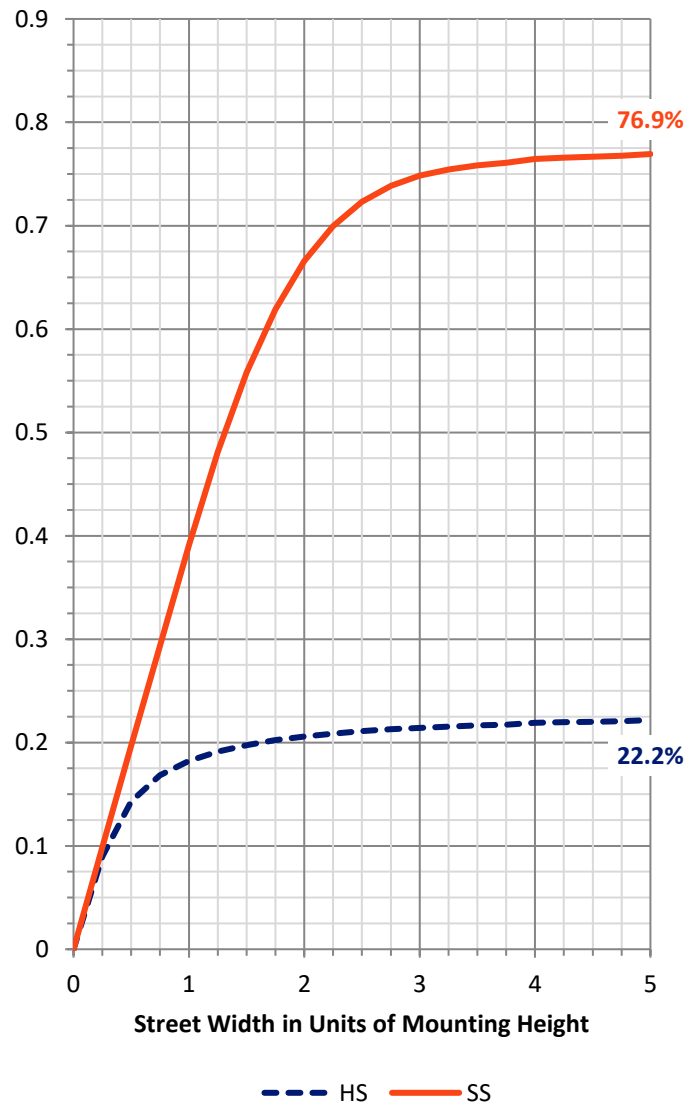
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4589.5	0.0	4589.5
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	15646.7	0.0	15646.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	20236.2	0.0	20236.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	1.1
10°-20°	709.9	3.5
20°-30°	1233.4	6.1
30°-40°	1802.5	8.9
40°-50°	2828.9	14.0
50°-60°	4350.3	21.5
60°-70°	5314.9	26.3
70°-80°	3295.3	16.3
80°-90°	478.7	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20236.2	100.0
0°-180°	20236.2	100.0



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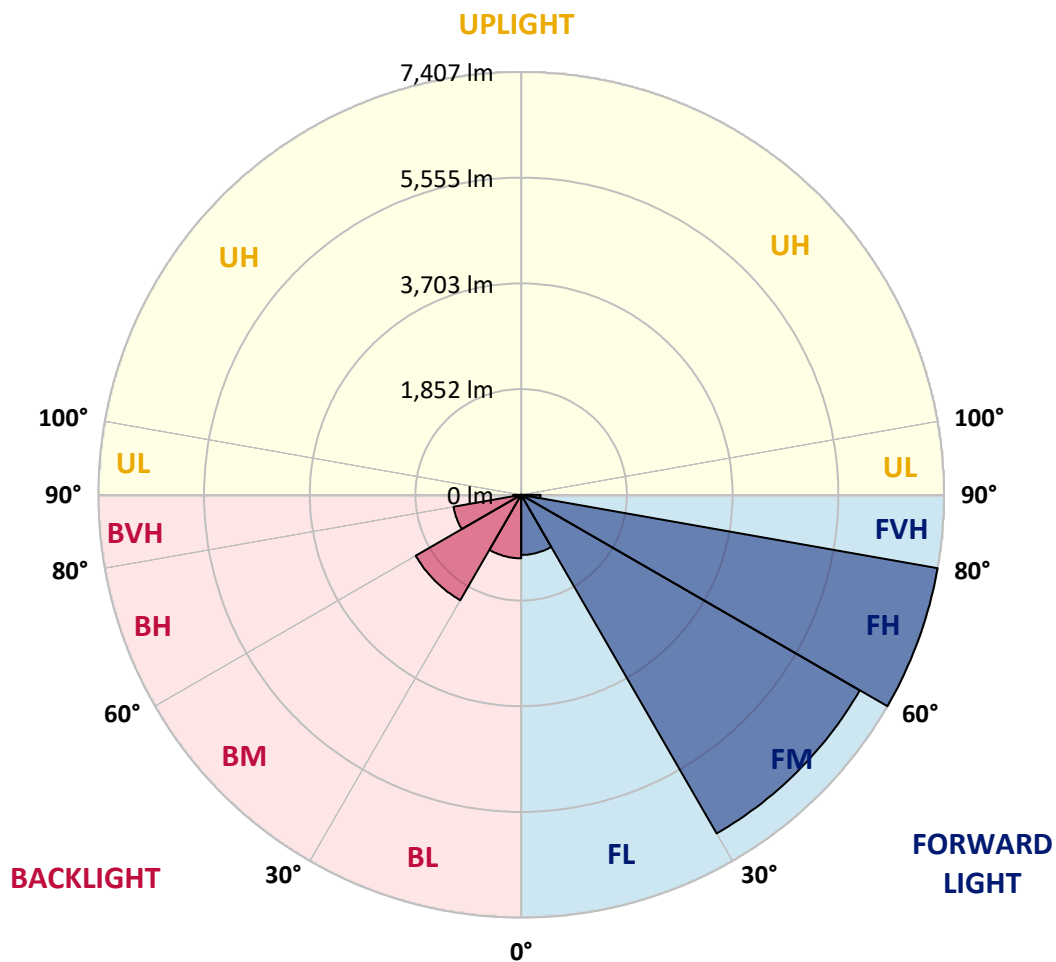
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.9	5.2			
FM	(30°-60°)	6849.0	33.8			
FH	(60°-80°)	7406.8	36.6			G3/7500
FVH	(80°-90°)	338.0	1.7			G3/500
BL	(0°-30°)	1112.7	5.5	B3/2500		
BM	(30°-60°)	2132.7	10.5	B2/2500		
BH	(60°-80°)	1203.5	5.9	B3/2500		G3/2500
BVH	(80°-90°)	140.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2175.1	2167.7	2167.7	2178.7	2182.5	2193.7	2193.7	2197.3	2208.5	2227.0	2249.1
5°	2108.4	2104.6	2108.4	2123.2	2130.6	2152.9	2160.2	2163.9	2186.3	2215.8	2249.1
7.5°	2041.7	2038.0	2045.4	2067.5	2089.8	2123.2	2141.7	2145.4	2178.7	2219.5	2264.0
10°	2019.5	2015.7	2026.8	2045.4	2067.5	2104.6	2134.4	2138.1	2186.3	2234.4	2297.3
12.5°	2049.2	2045.4	2056.5	2075.1	2097.3	2123.2	2156.7	2160.2	2223.2	2286.2	2352.9
15°	2123.2	2123.2	2126.8	2138.1	2160.2	2182.5	2212.2	2215.8	2282.6	2356.7	2423.4
17.5°	2238.0	2230.8	2230.8	2227.0	2241.8	2252.9	2290.0	2293.6	2364.1	2430.8	2497.5
20°	2378.9	2375.2	2360.3	2341.8	2338.1	2345.6	2382.6	2386.3	2456.8	2512.3	2575.4
22.5°	2549.3	2553.1	2519.7	2479.0	2460.4	2471.5	2504.8	2508.5	2560.4	2608.6	2664.3
25°	2775.4	2764.3	2716.0	2656.7	2619.7	2619.7	2653.1	2653.1	2701.3	2730.8	2767.9
27.5°	2990.3	2968.1	2923.5	2838.4	2779.0	2790.1	2823.6	2823.6	2868.0	2879.1	2897.7
30°	3223.7	3201.5	3146.0	3038.4	2960.6	2953.3	2994.1	2990.3	3049.6	3045.9	3031.1
32.5°	3509.0	3497.9	3405.2	3268.3	3164.4	3138.5	3175.6	3179.2	3216.3	3205.2	3157.1
35°	3909.2	3905.6	3820.3	3579.4	3442.3	3394.2	3416.4	3416.4	3442.3	3412.8	3331.2
37.5°	4413.2	4420.6	4346.4	3990.8	3798.0	3716.6	3720.2	3716.6	3724.0	3690.5	3605.3
40°	4917.1	4935.6	4932.0	4502.0	4257.5	4116.8	4064.9	4057.5	4076.0	4061.1	3979.6
42.5°	5580.5	5624.8	5521.2	5132.0	4857.9	4620.7	4479.8	4461.3	4502.0	4520.6	4442.7
45°	6269.6	6254.8	6091.8	5810.1	5561.9	5258.0	4991.3	4961.6	4991.3	5046.8	4965.3
47.5°	6629.0	6618.0	6577.1	6436.4	6399.3	6051.0	5647.0	5621.1	5565.5	5643.4	5547.0
50°	7222.0	7233.1	7066.2	7051.4	7207.1	7014.3	6388.1	6328.9	6228.8	6291.8	6210.3
52.5°	7651.8	7603.6	7499.8	7629.5	8114.8	8011.2	7084.8	7058.8	6966.3	6951.4	6914.3
55°	7825.9	7825.9	7844.4	8144.6	8837.4	8700.4	7840.6	7866.6	7740.6	7636.9	7685.1
57.5°	7877.7	7900.0	8059.4	8555.8	9686.1	9237.6	8674.5	8711.5	8529.9	8322.3	8474.3
60°	7622.1	7688.8	8070.5	8789.2	10164.1	9808.2	9552.5	9563.7	9300.6	8996.7	9263.6
62.5°	6966.3	7047.7	7729.6	8885.7	10086.2	10393.7	10382.6	10408.7	10049.1	9671.2	10004.7
65°	6162.2	6243.7	6969.9	8615.1	10026.9	10812.4	11142.2	11212.6	10749.5	10241.8	10467.9
67.5°	4980.2	5087.6	5776.8	7703.5	9737.8	11157.0	11853.7	11927.8	11290.4	10538.2	10427.0
70°	3609.1	3661.0	4239.0	5854.7	8559.6	10968.0	12416.9	12413.1	11468.3	10516.0	9871.3
72.5°	1737.9	1778.6	2278.8	3635.0	6121.4	9308.1	12009.4	12079.7	11223.8	10193.6	8600.4
75°	715.1	756.0	922.6	1534.0	3212.6	6151.1	10178.9	10345.6	10193.6	9148.7	6729.1
77.5°	444.7	459.5	541.0	792.9	1467.3	2871.7	7125.5	7351.5	8077.9	7329.4	4442.7
80°	333.5	344.6	403.9	555.8	926.3	1059.7	3538.8	3824.1	4894.9	4205.7	2012.1
82.5°	277.9	281.6	322.4	403.9	629.9	607.8	1133.9	1263.6	2282.6	1604.5	693.0
85°	259.4	266.7	289.1	289.1	400.1	381.7	470.6	492.8	663.3	548.4	240.8
87.5°	133.4	126.0	255.7	226.1	207.5	185.3	200.1	215.0	248.2	263.1	107.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2256.6	2267.7	2286.2	2304.8	2327.0	2352.9	2367.8	2386.3	2401.1	2393.8	2390.0
5°	2267.7	2286.2	2327.0	2364.1	2408.5	2460.4	2493.8	2530.9	2560.4	2567.8	2556.8
7.5°	2286.2	2319.7	2375.2	2442.0	2501.2	2567.8	2619.7	2671.6	2708.7	2716.0	2716.0
10°	2330.7	2367.8	2442.0	2530.9	2601.2	2671.6	2730.8	2771.7	2805.0	2819.8	2819.8
12.5°	2393.8	2438.2	2527.1	2634.5	2712.4	2779.0	2812.5	2831.0	2845.8	2860.7	2864.2
15°	2467.9	2516.1	2623.4	2738.4	2819.8	2853.1	2853.1	2849.5	2849.5	2856.9	2864.2
17.5°	2541.9	2593.8	2704.9	2827.2	2879.1	2860.7	2834.6	2823.6	2816.1	2812.5	2823.6
20°	2619.7	2671.6	2782.8	2897.7	2882.8	2805.0	2767.9	2742.0	2719.8	2708.7	2723.5
22.5°	2704.9	2753.1	2868.0	2945.8	2834.6	2716.0	2645.7	2604.9	2567.8	2545.6	2560.4
25°	2805.0	2853.1	2964.3	2960.6	2749.4	2582.6	2471.5	2404.9	2364.1	2341.8	2341.8
27.5°	2923.5	2964.3	3071.8	2923.5	2630.9	2404.9	2241.8	2178.7	2167.7	2149.1	2149.1
30°	3045.9	3079.2	3171.8	2838.4	2467.9	2171.5	1993.5	1963.9	1967.6	1949.1	1952.7
32.5°	3171.8	3205.2	3231.2	2712.4	2256.6	1908.3	1789.8	1767.4	1763.8	1749.0	1734.2
35°	3349.7	3397.8	3238.6	2541.9	2001.0	1689.7	1604.5	1582.3	1559.9	1508.2	1508.2
37.5°	3620.2	3672.1	3220.1	2330.7	1737.9	1519.3	1441.4	1411.7	1374.8	1322.8	1304.2
40°	3990.8	3990.8	3179.2	2093.6	1526.6	1382.1	1308.0	1270.9	1230.1	1178.3	1167.2
42.5°	4427.9	4324.3	3116.3	1852.8	1371.1	1289.4	1222.9	1182.0	1133.9	1074.6	1067.1
45°	4939.3	4657.7	3027.4	1637.8	1256.1	1233.9	1193.2	1122.7	1041.2	978.3	967.1
47.5°	5435.9	4957.8	2942.0	1485.8	1159.8	1211.6	1178.3	1059.7	948.6	859.7	848.5
50°	5980.6	5224.6	2842.1	1359.9	1085.7	1196.8	1159.8	967.1	844.9	781.9	774.3
52.5°	6525.3	5495.1	2734.6	1226.5	1022.7	1167.2	1115.3	900.5	841.2	756.0	744.8
55°	7099.7	5810.1	2608.6	1078.2	948.6	1107.9	1056.0	896.7	867.0	756.0	730.0
57.5°	7659.0	6158.4	2404.9	933.8	867.0	1018.9	1033.8	874.5	811.4	748.5	718.9
60°	8277.9	6529.1	2067.5	811.4	796.6	944.8	1004.1	826.4	748.5	726.3	711.5
62.5°	8774.5	6862.4	1615.6	726.3	737.4	885.5	967.1	796.6	722.5	704.0	700.3
65°	8989.3	6869.9	1159.8	652.2	678.1	830.0	930.0	770.7	700.3	693.0	689.2
67.5°	8763.3	6492.0	815.2	581.7	615.1	778.1	881.9	744.8	678.1	681.9	674.4
70°	8033.5	5695.3	596.6	515.1	555.8	722.5	830.0	711.5	652.2	659.5	648.4
72.5°	6721.7	4439.2	478.0	459.5	507.6	663.3	778.1	674.4	611.3	615.1	592.9
75°	4965.3	2942.0	400.1	411.3	452.0	607.8	711.5	626.2	566.9	552.1	537.2
77.5°	2953.3	1511.8	329.8	359.4	403.9	541.0	637.3	566.9	518.7	492.8	481.8
80°	1219.1	611.3	270.5	303.8	352.0	481.8	563.2	496.6	463.2	437.2	422.5
82.5°	485.4	300.2	215.0	248.2	296.4	418.7	492.8	437.2	403.9	385.4	344.6
85°	185.3	148.2	144.4	174.1	222.3	322.4	407.7	366.9	340.8	292.8	281.6
87.5°	74.1	66.7	66.7	85.2	126.0	203.7	292.8	255.7	266.7	211.2	215.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)